## VI. CLAIMS

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- 1. A method of product development and commercialization comprising:
- 4 (a) determining customer requirements for a product;
- (b) determining the return on investment of developing said product per
   said customer requirements;
- 7 (c) setting final requirements;
- 8 (d) approving said final requirements;
- 9 (e) selecting a base technology;
- 10 (f) modifying said base technology to meet said final requirements;
- 11 (g) approving said base technology selection and said modifications;
- 12 (h) testing said modified base technology to verify it meets said final requirements;
- (i) approving said testing of said modified base technology;
- 15 (j) checking compliance with at least a portion of the relevant laws and
  16 regulations of at least a portion of the jurisdictions where the modified
  17 base technology will be made, transported, or sold;
- 18 (k) approving said assurance of compliance; and

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- (I) manufacturing/commercializing said modified base technology.
- The method of claim 1 further comprising storing all data entered, retrieved, processed, created, stored, or modified in one or more central or distributed mutually accessible databases.
- The method of claim 1 further comprising sending an electronic mail notification to a participant in the method or an interested person upon completion of one of the steps of the method.
- The method of claim 2, wherein all participants in the method and authorized persons may access at least a portion of said database.
- The method of claim 4, wherein said access includes a plurality of pre-defined views, thereby permitting quick information sorting.
- The method of claim 4, wherein said access to said database is available
  globally from any personal computer having installed thereon a client
  application configured to perform database management system functions
  with said database and having a network connection configured to allow
  communication between said client application and said database.
- 7. The method of claim 1, wherein the steps are performed sequentially such that a later step is not performed until all earlier steps are completed.
- The method of claim 7, further comprising locking at least a portion of said steps prior to the completion of all earlier steps and unlocking said steps upon completion of all earlier steps, thereby preventing entering a step out of order without authorization.

- The method of claim 1, further comprising locking at least a portion of said steps after their completion, thereby preventing revision of said steps without authorization.
- The method of claim 1, further comprising terminating the method at any step, wherein said termination prevents further revision of any step in the method.
- The method of claim 1 further comprising a step to maintain version control of said approved final requirements in step (d), said approved base technology selection and modifications in step (g), or said approved qualification of modified base technology in step (i).
- 12. The method of claim 1, further comprising sending an electronic mail
  12 notification to a participant in the method or an interested person upon
  13 completion of one of the steps of the method.
- 13. The method of claim 1, further comprising recording in said database action items for completing one or more steps of the method, electronically notifying the responsible persons of said actions items, and tracking completion of said action items.
- 14. The method of claim 1, wherein one or more of said steps is at least in part completed by selecting items from a menu, list box, drop down list, or other selection device available in a personal computer graphical user interface, thereby reducing typing time and errors.
- 15. The method of claim 1, further comprising plotting the actual versus planned progress of said steps on a timeline, for measuring and improving performance and productivity of practicing said method.

1	16.	A me	ethod of product development and commercialization comprising:		
2		(a)	determining customer requirements for a product;		
3		(b)	storing said requirements in a computer readable database;		
4 5		(c)	determining the return on investment of developing said product per said customer requirements;		
6		(d)	storing said return on investment in said computer readable database		
7		(e)	setting final requirements;		
8		(f)	storing said final requirements in said computer readable database;		
9		(g)	approving said final requirements;		
10		(h)	storing said approval in said computer readable database;		
11		(i)	selecting a base technology;		
12		(j)	storing said selection in said computer readable database;		
13		(k)	modifying said base technology to meet said final requirements;		
14 15		(I)	storing information of said modification in said computer readable database;		
16		(m)	approving said base technology selection and said modifications;		
17		(n)	storing said approval in said computer readable database;		

2		(0)	requirements;
3		(p)	storing information from said testing in said computer readable database;
5		(q)	approving said testing of said modified base technology;
6		(r)	storing said approval in said computer readable database;
7 8 9		(s)	checking compliance with at least a portion of the relevant laws and regulations of at least a portion of the jurisdictions where the modified base technology will be made, transported, or sold;
10		(t)	approving said checking of compliance;
11		(u)	storing said approval in said computer readable database; and
12		(v)	commercializing said modified base technology; and
13 14		(w)	approving said commercialization and thereby locking all steps of said method, thereby preventing any further revision of said steps.
15 16 17	17.	retri	method of claim 16, further comprising storing all data entered, eved, processed, created, stored, or modified in one or more central or ributed mutually accessible databases.
18 19 20	18.	glob	method of claim 16, wherein said access to said database is available cally from any personal computer having suitable client software alled and suitable network connectivity.

- 1 19. The method of claim 16, wherein all participants in the method and
  2 authorized persons may access at least a portion of said database, and the
  3 graphical user interface presented matches the person's type of database
  4 access.
- The method of claim 16, wherein said access includes a plurality of pre-defined views, thereby permitting quick information sorting and searching.
- The method of claim 16, wherein the steps are performed sequentially such that a later step is not performed until all earlier steps are completed.
- The method of claim 21, further comprising locking at least a portion of said steps prior to the completion of all earlier steps and unlocking said steps upon completion of all earlier steps, thereby preventing entering a step out of order without authorization.
- 14 23. The method of claim 16, further comprising locking at least a portion of said 15 steps after their completion, thereby preventing revision of said steps 16 without authorization.
- The method of claim 16, further comprising maintaining version control of approved final requirements, approved base technology selection and modifications, or approved qualification of modified base technology.
- 25. The method of claim 16, further comprising terminating the method at any step, wherein said termination prevents further revision of any step in the method.

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- The method of claim 16, further comprising during any step sending an electronic mail notification to a participant in the method or an interested person.
- The method of claim 16, further comprising automatically sending e-mail notification to participants when any approval step is performed.
- The method of claim 16, further comprising recording in said database action items for completing one or more steps of the method, electronically notifying the responsible persons of said actions items, and tracking completion of said action items.
- 10 29. The method of claim 16, further comprising preventing said approval step (t) 11 from being performed while any action items are incomplete.
- The method of claim 29, wherein upon a termination of an instance of said method having incomplete action items results in sending an automatic electronic mail notification of said termination and the respective incomplete action item to each respective participant responsible for each respective incomplete action item.
- The method of claim 16, wherein one or more of said steps is at least in part completed by selecting items from a menu, list box, drop down list, or other selection device available in a personal computer graphical user interface, thereby reducing typing time and errors.
- The method of claim 16, wherein database users can enter new items in menus, list boxes, drop down lists or other selection devices after which these new items become part of the selection lists for instances of said method.

- The method of claim 16, wherein at least a portion of said steps comprise copying template forms that are stored in the database thereby insuring data consistency,
- The method of claim 33, wherein said template forms are revisable at any time by authorized administrators and wherein upon said revision the template forms become immediately available for use by future instances of said method.
- The method of claim 16, wherein reference forms are stored in the database and are made available to users thereby providing assistance in completing said steps.
- 11 36. The method of claim 35, wherein said reference forms are revisable at any time by authorized administrators and wherein upon said revision the reference forms become immediately available for use by future instances of said method.
- The method of claim 16, wherein administration of the database comprises providing, changing or revoking user access, maintaining items in various selection lists, maintaining template forms, reference forms and help forms, and wherein said administration is performed only by authorized persons
- 19 38. The method of claim 37, further comprising performing said administration 20 in a graphical user interface and wherein said administration does not 21 require knowledge of computing languages.
- 22 39. A method of product development comprising:

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23 (a) determining customer requirements for a product;

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1		(b)	storing said requirements in a computer readable database;
2		(c)	evaluating economics of developing said product per said customer requirements;
4		(d)	storing said evaluation in said computer readable database;
5		(e)	selecting a base technology;
6		(f)	storing said selection in said computer readable database;
7		(g)	determining modifications needed of said base technology to meet said final requirements;
9 10		(h)	storing information of said determination in said computer readable database; and
11 12		(i)	testing said determination to verify it meets said final requirements;
13 14		(j)	storing details and results of said testing in said computer readable database.
15 16	40.		method of claim 39, further comprising after said storing step (j), a step commercializing said modifying base technology.
17 18 19	41.	retri	method of claim 39, further comprising storing all data entered, eved, processed, created, stored, or modified in one or more central or ributed databases.

- The method of claim 39, wherein access to said database is available globally from any personal computer having suitable client software installed and suitable network connectivity.
- The method of claim 39, wherein all participants in the method and authorized persons may access at least a portion of said database, and the graphical user interface presented matches the person's type of database access.
- The method of claim 39, wherein said access includes a plurality of pre-defined views.
- 10 45. The method of claim 39, wherein the steps are performed in sequentially such that a later step is not performed until all earlier steps are completed.
- 12 46. The method of claim 45, further comprising locking at least a portion of said 13 steps prior to the completion of all earlier steps and unlocking said steps 14 upon completion of all earlier steps, thereby preventing entering a step out 15 of order without authorization.
- 16 47. The method of claim 39, further comprising locking at least a portion of said steps after their completion, thereby preventing revision of said steps without authorization.
- 19 48. The method of claim 39, further comprising terminating the method at any step, wherein said termination prevents further revision of any step in the method.

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- The method of claim 39, further comprising during any step sending an electronic mail notification to a participant in the method or an interested person.
- The method of claim 39, further comprising automatically sending e-mail notification to participants when any approval step is performed.
- The method of claim 39, further comprising recording in said database action items for completing one or more steps of the method, electronically notifying the responsible persons of said actions items, and tracking completion of said action items.
- 10 52. The method of claim 39, further comprising preventing said approval step (t) 11 from being performed while any action items are incomplete.
- The method of claim 39, wherein upon a termination of an instance of said method having incomplete action items results in sending an automatic electronic mail notification of said termination and the respective incomplete action item to each respective participant responsible for each respective incomplete action item.
- The method of claim 39, wherein administration of the database comprises providing, changing or revoking user access, maintaining items in various selection lists, maintaining template forms, reference forms and help forms, and wherein said administration is performed only by authorized persons
- 55. The method of claim 54, further comprising performing said administration in a graphical user interface and wherein said administration does not require knowledge of computing languages.

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1	50.	AIII	emou	or product development comprising.
2		(a)	dete	rmining customer requirements for a product;
3		(b)	storii	ng said requirements in a computer readable database;
4 5		(c)		rmining if base technology modifications are needed to meet said omer requirements;
6 7		(d)		se technology modifications are needed to meet said customer irements, then said method further comprises:
8			(1)	selecting a base technology;
9			(2)	storing said selection in said computer readable database;
10 11			(3)	determining modifications needed of said base technology to meet said final requirements;
12 13			(4)	storing information of said determination in said computer readable database; and
14 15			(5)	if the cost of said modification exceeds a predetermined amount, then said method further comprises:
16 17				(a) evaluating economics of developing said product per said customer requirements;
10				(b) storing said avaluation in said computer readable database:

1		(c) qualifying said determination of modifications to verify it meets said final requirements;
3		(d) storing said qualification in said computer readable
4		database; and
5		(e) manufacturing/commercializing said modified base
6		technology.
7	57.	The method of claim 56, wherein said access to said database is available
8		globally from any personal computer having suitable client software
9		installed and suitable network connectivity.
10	58.	The method of claim 56, wherein all participants in the method and
11		authorized persons may access at least a portion of said database, and the
12		graphical user interface presented matches the person's type of database
13		access.
14	59.	The method of claim 56, further comprising locking at least a portion of said
15		steps prior to the completion of all earlier steps and unlocking said steps
16		upon completion of all earlier steps, thereby preventing entering a step out
17		of order without authorization.
18	60.	The method of claim 56, further comprising during any step sending an
19		electronic mail notification to a participant in the method or an interested
20		person.
21	61.	The method of claim 56, further comprising recording in said database
22		action items for completing one or more steps of the method, electronically

- notifying the responsible persons of said actions items, and tracking completion of said action items.
- The method of claim 56, wherein upon a termination of an instance of said method having incomplete action items results in sending an automatic electronic mail notification of said termination and the respective incomplete action item to each respective participant responsible for each respective incomplete action item.
- The method of claim 16, wherein one or more of said steps is at least in part completed by selecting items from a menu, list box, drop down list, or other selection device available in a personal computer graphical user interface, thereby reducing typing time and errors.
- 12 64. The method of claim 56, wherein administration of the database comprises 13 providing, changing or revoking user access, maintaining items in various 14 selection lists, maintaining template forms, reference forms and help forms, 15 and wherein said administration is performed only by authorized persons
- 16 65. The method of claim 64, further comprising performing said administration 17 in a graphical user interface and wherein said administration does not 18 require knowledge of computing languages.
- 19 66. A product development and commercialization management information 20 system, said system comprising:
- 21 (a) means for storing, retrieving, searching, modifying, and reporting 22 customer requirements for a product;

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1		(b)	means for storing, retrieving, searching, modifying, and reporting an		
2			evaluation of the economics of developing said product per said		
3			customer requirements;		
4		(c)	means for storing, retrieving, searching, modifying, and reporting a		
5			selection of a base technology;		
6		(d)	means for storing, retrieving, searching, modifying, and reporting a		
7			determination of modifications needed of said base technology to		
8			meet said final requirements; and		
9		(e)	means for storing, retrieving, searching, modifying, and reporting		
10			testing details and results of said determination to verify it meets said		
11			final requirements.		
	07	۸ ۱	and the transport and commercialization management information		
12	67.		oduct development and commercialization management information		
13		syst	em comprising:		
14		(a)	a collaborative work space, wherein multiple participants can		
15			individually and jointly work on a project:		
16			(1) configured at least partially automating workflow of product		
17			development and commercialization projects from determining		
18			customer requirements and financial analysis of project viability,		
19			through determining a base technology, determining any needed		
20			modifications of said base technology, and testing said modified		
21			base technology to verify compliance with customer		
			requirements, and configured for adding/changing the		

participants in a project;

l		(2)	configured for assigning, tracking and providing notification of
2			tasks relating to a product development project or group of
3			projects;
4		(3)	configured for providing a collaborative work space comprising a
5			secure/searchable communication repository linked to product
6			development projects or logical grouping of projects and their
7			tasks, for communications with and between project participants
8			and customers, configured for recording, channeling, and
9			archiving said communications;
10		(4)	configured for financial tracking and/or forecasting for a project
11			or a logical grouping of projects;
12		(5)	configured for importing lab data;
13		(6)	configured for providing a secure and searchable document
14			repository linked to projects or logical groupings of projects,
15			wherein said documents are in final format; and
16	(b)	a da	atabase:
17		(1)	configured for storing a product development project's history
18			and details, said history and details comprising the types of data,
19			time schedules, status of all steps in the project, contact
20			information, results of all steps in the project, and documents
21			and information supporting all steps in the project; and
22			
23		(2)	configured for searching said stored history and details and for
24			generating reports from same;

- (c) a network for connecting said collaborative workspace and database;
   and
- (d) means for providing for different levels of secure access for different
   users.
- 5 68. The system of claim 67, wherein said network comprises the Internet.
- 6 69. The system of claim 67, wherein said collaborative workspace comprises a client application comprising a web browser.